

Application Serial No: 10/627,142  
In reply to Office Action of 18 December 2003

Attorney Docket No. 83086

AMENDMENTS TO THE CLAIMS:

1. (Currently Amended) An expandable elastomeric disk for retaining and discharging a fluid under pressure, said elastomeric disk comprising:

first and second curvatures protruding opposite to each other from a central plane of said elastomeric disk wherein a surface of said first curvature is contactable to said fluid; and

an annulet ~~attachable~~ capable of attachment to a support structure for said elastomeric disk, said annulet including an interior circumference dovetailing to an exterior circumference with said interior circumference integrating to the surface of said first curvature at a first point and integrating to a surface of said second curvature at a second point; and

wherein a distance of said first point from a central axis of said elastomeric disk is less than a distance of said second point from said central axis of said

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said elastomeric disk thereby providing a thickness combining said annulet and said first curvature in relation to said central plane greater than a thickness combining said annulet and said second curvature in relation to said central plane such that said thickness at said annulet and said first curvature reduces material strain at said thickness of said annulet and said first curvature during the expansion of said elastomeric disk with the effect of relocating the material strain to said central axis;

wherein said central axis is perpendicular to said central plane.

2. (Currently Amended) The elastomeric disk in accordance with claim 1 wherein a surface of said annulet ~~indents~~ includes an indent originating from said first point toward a thickness of said annulet, said indent providing a reduction in material used for said elastomeric disk.

3. (Original) The elastomeric disk in accordance with claim 2 wherein said indent is less than a plane collinear with the protrusion of said first curvature.

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4. (Original) The elastomeric disk in accordance with claim 3 wherein said indent is positioned at a majority of a distance from said first point to said periphery.
5. (Original) The elastomeric disk in accordance with claim 4 wherein said exterior circumference is positioned at a periphery of said elastomeric disk.
6. (Canceled).
7. (Currently Amended) The elastomeric disk in accordance with claim [[6]] 5 wherein the distance of said first point from the central axis is at most eighty percent of the distance of said second point from the central axis of said elastomeric disk.
8. (Original) The elastomeric disk in accordance with claim 7 wherein said first curvature is contactable to said fluid under pressure as a pressure side of said elastomeric disk and said second curvature protruding opposite to said first curvature as a non-pressure side of said elastomeric disk.